

# MATERIAL SAFETY DATA SHEET

## MSDS

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Date Issued 09/19/97  
MSDS Ref No RPTM12352  
Date Revised 03/02/2001  
Revision No 3

### Spa Time Non-Chlorine Shock

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#### 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME Spa Time Non-Chlorine Shock  
GENERAL USE Non-Chlorine Shock  
CHEMICAL FAMILY Peroxygen Salt

##### MANUFACTURER

Recreational Water Products  
Spa Time  
PO Box 887  
Scottdale, GA 30079  
Customer SERVICE (800) 949-7946

##### 24 HR. EMERGENCY TELEPHONE NUMBERS

CHEMTREC (Transportation) (800) 424-9300  
Poison Control Center (Medical)(877) 800-5553

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#### 2. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	CAS#	Wt %
Potassium Peroxymonosulfate	10058-23-8	43
Potassium Bisulfate	7646-93-7	23
Potassium Sulfate	7778-80-5	29
Potassium Peroxydisulfate	7727-21-1	3
Magnesium Carbonate	546-93-0	2

##### COMMENTS:

Note CAS # for mixture is 70693-62-8

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#### 3. HAZARDS IDENTIFICATION

##### EMERGENCY OVERVIEW

###### PHYSICAL APPEARANCE

White, granular material

###### IMMEDIATE CONCERNS

DANGER CORROSIVE Causes skin and eye damage. Wear goggles or face shield and rubber gloves when handling. May be fatal if swallowed. Irritating to nose and throat. Avoid inhalation of dust. Remove and wash contaminated clothing before reuse.

##### POTENTIAL HEALTH EFFECTS

###### EYES

DANGER Corrosive Causes eye damage. Do not get in eyes.

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#### SKIN

DANGER Corrosive Causes skin damage May cause allergic skin reactions in sensitive individuals Do not get on skin

#### INGESTION

May cause inflammation and damage to the lining of the stomach, resulting in bleeding and possibly death

#### INHALATION

Irritating to nose and throat May cause nosebleeds and irritation of upper respiratory passages with coughing and discomfort Avoid breathing dust or vapors

#### CHRONIC

There are no known chronic hazards

#### ROUTES OF ENTRY:

Skin Contact, Inhalation, Ingestion, Eye Contact

#### COMMENTS:

Individuals with preexisting diseases of the skin or gastrointestinal tract may have increased susceptibility to the toxicity of excessive exposures

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## 4. FIRST AID MEASURES

#### EYES

If contact with eyes occurs Immediately flush with cold water for at least 15 minutes Then get immediate medical attention

#### SKIN

If contact with skin Rinse off excess chemical and flush skin with cold water for at least 15 minutes If skin irritation develops, seek immediate medical attention

#### INGESTION

If swallowed Do not induce vomiting Drink 1 - 2 glasses of water to dilute the stomach contents Never give anything by mouth to an unconscious person Call a physician immediately

#### INHALATION

If inhaled Remove to fresh air If breathing is difficult, have trained person administer oxygen If not breathing, give artificial respiration Call a physician immediately

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## 5. FIRE FIGHTING MEASURES

#### GENERAL HAZARD

This product is not flammable or combustible

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#### EXTINGUISHING MEDIA

Water

#### HAZARDOUS COMBUSTION PRODUCTS

Will release oxygen when heated, intensifying a fire. Acidic mist may be present.

#### FIRE FIGHTING PROCEDURES

Exercise caution when fighting any chemical fire. A self-contained breathing apparatus and protective clothing are essential.

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## 6. ACCIDENTAL RELEASE MEASURES

#### GENERAL PROCEDURES:

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Utilizing appropriate protective clothing and safety equipment, contain spilled material. Using clean dedicated equipment, sweep and scoop all spilled material, contaminated soil, and other contaminated material and place in clean dry plastic containers for disposal. Dispose of according to local, state, and federal regulations.

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## 7. HANDLING AND STORAGE

#### HANDLING

**STRONG OXIDIZING AGENT.** Do not mix with other chemicals. Mix only with water. Never add water to product. Always add product to large quantities of water. Use clean dry utensils. Do not add this product to any dispensing device containing remnants of any other product. Such use may cause a violent reaction leading to fire or explosion. Contamination with moisture, organic matter or other chemicals will start a chemical reaction and generate heat, hazardous gas, possible fire and explosion. In case of contamination or decomposition, do not reseal container. If possible, isolate container in open air or well ventilated area. Flood area with large volumes of water.

#### STORAGE

Keep this product in original closed container when not in use. Store in a cool, dry, well ventilated area away from heat or open flame. Do not add any other product to container. Never return unused product to container, dispose of product in accordance with local, state, or federal regulations.

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## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### EXPOSURE GUIDELINES.

#### OSHA HAZARDOUS COMPONENTS (29 CFR 1910.1200)

		EXPOSURE LIMITS			
		OSHA PEL		ACGIH TLV	
		ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>
Potassium Peroxymonosulfate	TWA	[1]			[2]
Potassium Bisulfate	TWA	N/E <sup>[3]</sup>		N/E	
Potassium Sulfate	TWA	N/E <sup>[4]</sup>		N/E	
Potassium Peroxydisulfate	TWA			[5]	
Magnesium Carbonate	TWA	[6]		[7]	

#### OSHA TABLE COMMENTS

- 15 mg/m<sup>3</sup>, 8 hr, total dust
- 1 mg/m<sup>3</sup>, 8hr
- N/E = None Established
- N/E = Not Established
- 0.1 mg/m<sup>3</sup>, 8 hr
- 15 mg/m<sup>3</sup>, 8 hr, total dust
- 10 mg/m<sup>3</sup>, 8 hr, total dust

### ENGINEERING CONTROLS:

General room ventilation plus local exhaust should be used to maintain exposure below TLV

### PERSONAL PROTECTIVE EQUIPMENT

#### EYES AND FACE

Wear goggles or safety glasses with side shields when handling this product

#### SKIN

Wear rubber gloves when handling this product. Avoid contact with skin

#### RESPIRATORY

A respiratory protection program that meets OSHA 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use

### WORK HYGIENIC PRACTICES:

Remove and wash contaminated clothing before reuse

### OTHER USE PRECAUTIONS

Facilities storing or utilizing this material should be equipped with an eyewash and safety shower

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#### 9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE Solid  
ODOR Odorless  
APPEARANCE Granular, free-flowing solid  
COLOR White  
pH 2.3(1% solution)  
VAPOR PRESSURE Nil  
VAPOR DENSITY Not volatile  
BOILING POINT Not Determined  
FREEZING POINT Not Determined  
MELTING POINT Not Determined  
SOLUBILITY IN WATER 25 g / 100 g water @ 20 C  
SPECIFIC GRAVITY 1.1 to 1.4

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#### 10. STABILITY AND REACTIVITY

##### CONDITIONS TO AVOID

High temperature Poor ventilation Contamination Moisture/high humidity

##### STABILITY

This product is stable under normal conditions

##### POLYMERIZATION

Hazardous polymerization will not occur under normal conditions

##### HAZARDOUS DECOMPOSITION PRODUCTS

Oxygen gas can be produced

##### INCOMPATIBLE MATERIALS

Do not mix with other swimming pool/spa chemicals in their concentrated forms. Mixing with compounds containing halides or active halogens can cause release of the respective halogen if moisture is present. Mixing with cyanides can cause release of hydrogen cyanide gas. Mixing with heavy metal salts such as those of cobalt, nickel, copper, or manganese can cause decomposition with release of oxygen and heat.

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#### 11. TOXICOLOGICAL INFORMATION

##### ACUTE

SKIN ABSORPTION >11,000 mg/kg in rabbits

ORAL LD<sub>50</sub> 2,000 mg/kg (rat)

INHALATION LC<sub>50</sub> >5 mg/l (rats) (4-hour)

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#### EYE EFFECTS

This product is corrosive to eyes

#### SKIN EFFECTS

This product is corrosive to skin

#### CARCINOGENICITY

This product is not listed as a carcinogen by IARC

This product is not listed as a carcinogen by NTP

This product is not listed as a carcinogen by OSHA

#### GENERAL COMMENTS

Single inhalation exposures produced nonspecific effects such as weight loss and irritation. Repeated inhalation exposures produced eye irritation and reversible corneal damage. By ingestion, the administration of large single doses produced nonspecific effects such as weight loss and irritation as well as gastric ulceration, necrosis, and hemorrhage. The compound does not produce genetic damage in bacterial cell cultures.

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## 12. ECOLOGICAL INFORMATION

#### ECOTOXICOLOGICAL INFORMATION

This product may be toxic to fish and aquatic organisms. Keep product from entering waterways and watersheds.

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## 13. DISPOSAL CONSIDERATIONS

#### PRODUCT DISPOSAL

Do not put product, spilled product, or partially filled containers into the trash or waste compactor. Contact with incompatible materials could cause a reaction or fire. Comply with federal, state, and local regulations. Solutions greater than 3% by weight have a pH <2.0 and may be a RCRA hazardous waste upon disposal due to the acidic pH characteristic of the solution. If approved, flush to sewer or waste treatment plant. Large quantities should be neutralized with soda ash.

#### EMPTY CONTAINER

Do not reuse container. Rinse thoroughly before discarding in trash.

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## 14. TRANSPORT INFORMATION

#### DOT (DEPARTMENT OF TRANSPORTATION)

PROPER SHIPPING NAME Corrosive Solid, Acidic, Inorganic, N.O.S. (Monopersulfate Compound)

PRIMARY HAZARD CLASS/DIVISION 8

UN/NA NUMBER 3260

PACKING GROUP II

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#### 15. REGULATORY INFORMATION

##### UNITED STATES

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)  
313 REPORTABLE INGREDIENTS This product or its components are not listed

CERCLA (COMPREHENSIVE RESPONSE, COMPENSATION, AND LIABILITY ACT)  
CERCLA REGULATORY This product or its components are not listed

TSCA (TOXIC SUBSTANCE CONTROL ACT)  
TSCA REGULATORY This product or its components are not subject to export notification  
TSCA STATUS This product or its components are listed on the TSCA Inventory

OSHA HAZARD COMM. RULE  
Product is hazardous by definition of the Hazardous Communication Standard

FIFRA (FEDERAL INSECTICIDE, FUNGICIDE AND RODENTICIDE ACT)  
This product is not a registered pesticide

##### CANADA

WHMIS (WORKER HAZARDOUS MATERIALS INFORMATION SYSTEM)  
D2B

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#### 16. OTHER INFORMATION

##### REVISION SUMMARY

Revision # 3

This MSDS replaces the November 24, 1999 MSDS. Any changes in information are as follows in Section 2:

Emergency Overview - Immediate Concerns (text) Potential Health Effects - Skin (text) Potential Health Effects - Inhalation (text) Potential Health Effects - Ingestion (text) Section 3 Footnotes

In Section 8:

Appearance (text) (Group Field) for Boiling Point (Group Field) for Freezing Point (Group Field) for Melting Point

##### NFPA CODES

HEALTH 3 FIRE 0 REACTIVITY 1

##### HMIS CODES

HEALTH 3 FIRE 0 REACTIVITY 1 PROTECTION B

##### MANUFACTURER DISCLAIMER:

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